Prof. Douglas' Interesting Address

(Continued from Page Three.)

to inexperience, and which must nec essarily occur during the premature development of mines on a large scale I can therefore appreciate the impossi

bility of avoiding them altogether.

"The few remarkable instances out of many which I have quoted, of waste on a national scale, it may not be within the power of many or any of us to remedy. But we shall all have to consider again and again what pro vision can be made to preserve valua material for future treatment which, at the moment, is virtually

Treating Lower Grade Ores.
"It is difficult to forecast the future and to anticipate the economical changes which time will bring with it, but of this we may be certain, that the drift of events will be inevitably toward lower treatment charges and therefore the utilization, not only of lower grade ores, but what is today actually rejected as waste.

"In mining therefore, it is better to store at surface, if the character of the ore will permit of it, lower grade ores than to bury them in the stopes as filling, under the certainty that the day is not distant when they will be valuable; or if they must be left un-derground separate the ore, no matter how low, from actual waste. It may cost a trifle more at first to do so, but in the end it will pay, and the end must always be kept in view.

"I have to do with a mine which, when first worked, was 125 miles from a railroad, and the standard of the ore fed to the furnace was fixed by the management at 18 per cent of copper. With lower freight and cheaper fuel, the standard was reduced to 12 per cent. Now it is between six and seven

Gradation of Wastes.

"During the first stage, 12 per cent was waste; during the second, seven per cent was waste. Today it would be rash to count any copper bearing material as actual waste. But at each stage of development the ore rejected for the moment was trea el as worthless and thrown as such into the stopes. From there it can be recover ed though at needless cost.

"As, however, the property has thrice changed hands since the early days, the original owners would deride the sugestion that for the good of their successors they should have 'ncurred a dollar of unnecessary expense. 10 very truth, however, the property would not so often have changed hands had the future and not the immediate present been more prominent in the calculations of each successive admin-

"The ores of the Arizona mines have changed, and so have the method of treatment. For years it was considered that with the appearance of sulphur would date their rapid decline. Then that pernicious element was re-garded as worse than waste. Today it is in urgent demand, for, with the infroduction of the pneumatic method and the cleaner slags made by matte smelting, it is found cheaper to make copper from a sulphide mixture, though by several operations, than from carbonate ores by a single fur-

nace treatment. "Morever, we are everywhere reso dumped that they have been wash-

our reach, and thus change what was of Arizona. then waste into valuable material.

Waste of Precious Metals.

per concentrating mills. Only some recovered at the time, and yet at first those enormously rich tailing were not even collected. Such was the haste of the miner to empty that stu-pendous densely which about the carry on its business; balance, if any, needows made Nevada prosperous for genera-tions, instead of whirling the whole rectors by a majority vote thereof. All country into a mad dance of reckless stock to be forever non-assessable.

"The values locked up in our Arlzona slags, in the Comstock slimes, in the Anaconda tailings, all represent a large waste and heavy loss, even though they may be in part recovered by subsequent treatment."

end of trouble. When the stomach secretary, treasurer and manager, and fails to perform its functions the such other officers as said board may fails to perform its functions the bowels become deranged, the liver and kidneys, congested, causing numerous disease, the most fatal of which are painless and therefore the more to be dreaded. The important thing is to restore the stomach and liver to a health condition of the stockholders to be held on the first Monday in April of each year. liver to a healthy condition, and for this purpose no better preparation can be used than Chamberlain's Stomach and Liver Tablets. For the board of directors who shall have charge of the affairs of this corporation until the first meeting of stockholders as provided herein, are as follows.



ANCIENT.

"Old Mr. Boreleigh's borse stories are becoming positively insufferable." "Sort of horse-chestnuts, as it were.

3rd Improvement

You wouldn't know the Hotel Ord now in Douglas. The hotel has been completely renovated and refurnish ed, and Landlord Elwood Madden 's adding to the popularity of the house daily. Pete Lepach presides at the bar, and all will remember Pete at the L. & O. in Bisbee.

Mrs. Rich has received a new supply of perfumes, powders, hair tonics. She also has on hand plenty of Yanola Cream, which is famous for removing blackheads, tan, and beautifying the complexion. Have you ever tried Loa Montez face bleach? If not, call on Mrs. Rich. She always has some in hand.

Call on York Transier of hauling. Prompt attention given to 4-13-1mc all orders.

ARTICLES OF INCORPORATION. BROPHY CARRIAGE COMPANY.

Know all men by these presents Fhat we, James E. Brophy, Thomas J. Brophy and Hugh J. Brophy, all of Bisbee, Cochise county, Territory of Arizona, have this day voluntarily as sociated ourselves together for the purposes of forming a corporation un ter the laws of the Territory of Aricona, and we do hereby certify, ac-knowledge, and adopt the following articles of incorporation.

The name of said corporation shall be "Brophy Carriage Company" and he principal place of business of said corporation shall be at Lowell, near own of Bisbee, Cochise County, Arizona, with such other offices at such other places as the board of directors may determine.

The general nature of the business proposed to be transacted by said cor-poration is as follows: To buy and sell, and in any and every way deal in either in its own right, or upon consignment, as factor, broker, or otherwise, carriages, wagons, buggies, and vehicles of all descriptions, horses and harnesses; to own, conduct, manage and control a general merchandise bus smelting the rich slags formers, and though, unfortunately, at certain furnaces they were considered as of such all other species of personal property; naces they were considered as to have been to acquire and own stables and refer the housing of its merpositories for the housing of its mer-chandise, goods and wares; to in any ed away.

"We were not to blame for making copper direct from carbonate ores, though it involves waste, for sulphuretted ores were not obtainable and it would not have paid to reduce a sulphide charge by the older methods in vogue 20 years ago. But we were at times to blame for not believing that times to blame for not believing that val or convenient to the proper conmetallurgy and railroading and all associated industries would rapidly advance and put cheaper methods, cheap- elsewhere, not contrary to the laws of cr fuel, cheaper transportation within the United States, or said Territory

The authorized amount of capital stock of this corporation shall be "The same has been eminently true (wenty-five thousand (\$25,000) dollars, of the waste from gold, silver and cop. divided into two hundred and fifty per concentrating mills. Only some (250) shares of the par value of one 60 per cent of the hundreds of millions hundred (\$100) dollars each; which which the Comstock lode yielded was said stock shall be sold, either for cash, or in exchange for personal and real property, to enable said corporapendous deposit which should have to remain in the treasury subject to

speculation.

"And at Anaconda there are said to be tailings by the millions of tons which will run from two to two and a half per cent of copper, made when a large production rather than minute large production rather than minute to the manner provided by law, and the termination thereof shall be twenty-five years thereafter. five years thereafter.

be conducted by a board of directors, said board to consist of three members. For the transaction of the busi ness of this corporation there shall also be elected by the board of direct-A disordered stomach may cause no ors the following officers: A president

lows: James E. Brophy, Thomas J. Brophy and Hugh J. Brophy.

The highest amount of indebtedness or liability, direct or contingent to which this corporation is at any time to subject itself, shall be two-thirds of its capital stock.

The private property of the stocksolders shall be exempt from liability
or execution for the debts of the corporation.

Notary Public
4-24-6t.

My commission expires Mar. 8, 1907.

in witness whereof, the incorpora-ors have hereunto set their hands, at Bisbee, Arizona, the 9th day of April A. D., one thousand nine hundred and

JAMES E. BROPHY. THOMAS J. BROPHY, HUGH J. BROPHY. Territory of Arizona

County of Cochise,)
Before me, Edw. J. Flanigan, a
notary public, in and for the County of Cochise, Territory of Arizona, on this day personally appeared James E. Brophy, Thomas J. Brophy and Hugh J. Brophy, known to me to be the persons whose names are subscribed to

the foregoing instrument, and each acknowledged to me that he executed the same for the purpose and consideration therein expressed. The BANK of BISBEE

the same for the purposed.
eration therein expressed.
Given under my hand and seal of office this 9th day of April, A. D., 1904.
EDW. J. FLANIGAN,
Notary Public,
Mar. 8, 1907.

Watches



OFFICERS AND DIRECTORS.

L. C. Shattuck, President. J. M. Muheim, Vice-President. J. T. Hood, Cashier. L. J. Overlock,

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FROM PHOENIX	STATIONS	TOWARDS PHOENIX
5:10 p.m. 8:50 a.m. 7:00 p. 5:29 p.m. 9:09 a.m. 7:20 p. 8:45 p.	m. Ar Temple Lv	5.36 a m. 7:41 a m 2:16 p m 5:12 a m. 7:24 a m 1:55 p m 3.45 a m.
	Mesa Branch	
TOWARDS MESA	STATIONS	FROM MESA
5:38 p m 9:12a m 6:05 p ir 9:33 a m	Ar MesaLv	

M. O. Bicknell Supt and Gen'l Frt and Pass. Apt General Offices. Phoenix. Arizana

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